

Special Issue

Sustainable Design for Safer Nanotechnology

Message from the Guest Editors

Nanomaterials generate scientific interest in the research community and a large number of industrial applications that involve manufactured nanomaterials (powders, composites, etc.). However, their nano-scale and properties raise the question of their risks for humanity and the environment. The benefit–risk balance remains a complex question that traditional models of risk analysis do not fully address. Specific guidelines to nanomaterials design have been proposed recently as the principles of ‘Design for Safer Nanotechnology’. To date, all these design principles have been largely untested and do not include sustainable criteria. It is time to further define general guidelines including sustainable criteria and to take into account the evolution of the materials within the whole life cycle. This Special Issue will discuss complementary angles of the eco-design conception and synthesis of sustainable nanomaterial-containing products.

Guest Editors

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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